

Running IOCs on Linux

Michael Davidsaver

mdavidsaver@bnl.gov

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Problem

- An EPICS IOC is an interactive process
- Must be attached to a console at all times
- Can't be put in the background

Solutions

- “screen” command
 - Simple to use
- procServ
 - Remote access
 - Integrates with Connection Server (conservver)

Running procServ

- procServ [options] <port> <command> <args>
 - -L logfile
 - -p pidfile
- procServ -p /var/run/ps.pid 2000 softloc X.cmd

Automatic Start

- NSLSII Debian package “sysv-rc-softioc”
- `/usr/share/doc/sysv-rc-softioc/README`
- Each IOC has:
 - Name
 - procServ port
 - init script: `/etc/init.d/softioc-IOCNAME`
 - config file: `/epics/ioc/IOCNAME/config`
 - executable: `/epics/ioc/IOCNAME/st.cmd`

IOC Location

- Each IOC gets a directory
 - Prefix(s) defined in /etc/default/epics-softioc
 - Default: /epics/iocs
- Contains usual
 - Start script
 - .db files
 - Executable
- Also include source to allow re-linking when support modules are upgraded

Config file

- /epics/iocs/IOCNAME/config

NAME=IOCNAME

PORT=4050

#USER=osuser # defaults to \$NAME

HOST=myhost # start fails in myhost

doesn't match hostname

Start script

- `/etc/init.d/softioc-IOCNAMEx`
- A symbolic link to `/etc/init.d/softioc`
`# ln -s softioc /etc/init.d/softioc-IOCNAMEx`
`# update-rc.d softioc-IOCNAMEx defaults 99`
- `/etc/init.d/softioc-IOCNAMEx <command>`
 - start, stop, restart, status

